

Title (en)  
METHOD FOR SIMULTANEOUS MULTI-SLICE MAGNETIC RESONANCE IMAGING USING SINGLE AND MULTIPLE CHANNEL RECEIVER COILS

Title (de)  
VERFAHREN FÜR SIMULTANE MULTISLICE-MAGNETRESONANZBILDGEBUNG MIT EINZEL- UND MEHRKANALEMPFÄNGERSPULEN

Title (fr)  
PROCÉDÉ D'IMAGERIE SIMULTANÉE PAR RÉSONANCE MAGNÉTIQUE À TRANCHES MULTIPLES À L'AIDE DE BOBINES RÉCEPTRICES À CANAUX UNIQUES ET MULTIPLES

Publication  
**EP 2539728 A1 20130102 (EN)**

Application  
**EP 11711172 A 20110225**

Priority  
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Abstract (en)  
[origin: WO2011106649A1] A method for reconstructing a plurality of images depicting a subject from image data that is simultaneously acquired from a corresponding plurality of slice locations with a magnetic resonance imaging (MRI) system is provided. Image data is acquired following the application of radio frequency (RF) energy to the plurality of slice locations. The RF energy is tailored to provide a different phase to each of the plurality of slice locations. Reference image data is also acquired for each slice location following the application of RF energy that has the same phase as is used to excite the respective slice location for the acquisition of the image data. Aliased images are reconstructed from the image data, and reference images are reconstructed from the reference image data. Using both of these image sets, an unaliased image is produced for each of the plurality of slice locations.

IPC 8 full level  
**G01R 33/48** (2006.01); **A61B 5/055** (2006.01); **G01R 33/561** (2006.01); **G01R 33/565** (2006.01)

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